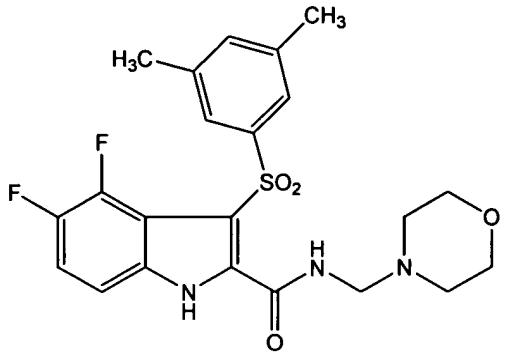
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

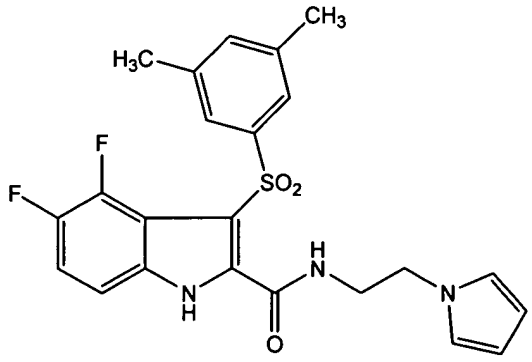
Claims 1-7 (cancelled)

Claim 8 (original): A compound of the formula



or a pharmaceutically acceptable salt thereof.

Claim 9 (original): A compound of the formula

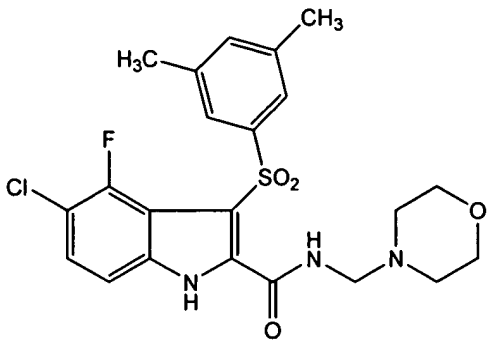


or a pharmaceutically acceptable salt thereof.

Claim10 (cancelled)

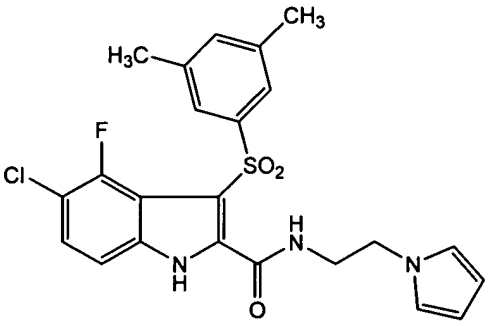
Claim 11 (cancelled)

Claim 12 (original): A compound of the formula



or a pharmaceutically acceptable salt thereof.

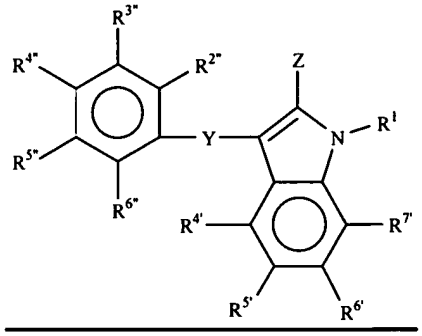
Claim 13 (original): A compound of the formula



or a pharmaceutically acceptable salt thereof.

Claims 14-18 (cancelled)

Claim 19 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -NHSO_2-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-S$(O)_n$-R^3; -C$R^2R^2NH_2$; -CR^2R^2NHR^2; -CR^2R^2NR^2R^3; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -NHSO_2-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

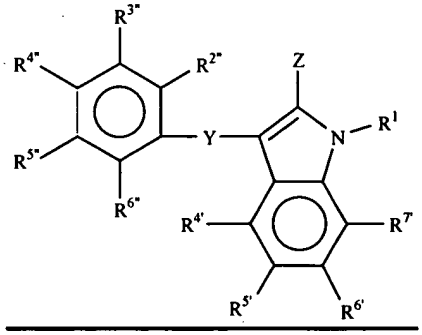
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

optionally in a pharmaceutically acceptable carrier or diluent.

Claim 20 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-S$(O)_n$-R^3; -$CR^2R^2NH_2$; -CR^2R^2NHR^2; -CR^2R^2NR^2R^3; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

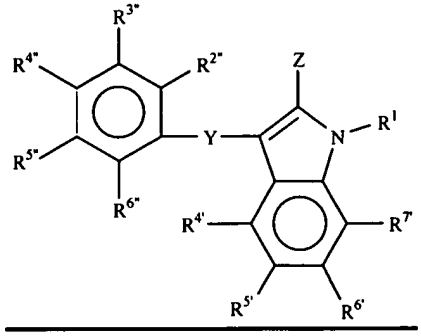
wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally in a pharmaceutically acceptable carrier or diluent.

Claim 21 (original): The method of claim 20, wherein the other anti-HIV agent is a reverse transcriptase inhibitor.

Claim 22 (original): The method of claim 21, wherein the reverse transcriptase inhibitor induces a mutation lysine 103 → asparagine and/or tyrosine 181 → cysteine in HIV reverse transcriptase.

Claim 23 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host, wherein the HIV has a mutation at lysine 103 → asparagine and/or tyrosine 181 → cysteine in HIV reverse transcriptase, comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-$S(O)_n$-R^3; -$CR^2R^2NH_2$; -$CR^2R^2NHR^2$; -$CR^2R^2NR^2R^3$; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

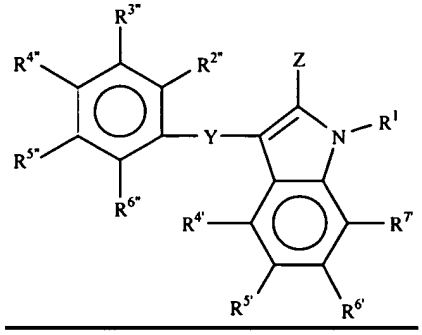
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

optionally in a pharmaceutically acceptable carrier or diluent.

Claim 24 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host, wherein the HIV is resistant to one or more reverse transcriptase inhibitor(s), comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-$S(O)_n$-R^3; -$CR^2R^2NH_2$; -$CR^2R^2NHR^2$; -$CR^2R^2NR^2R^3$; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

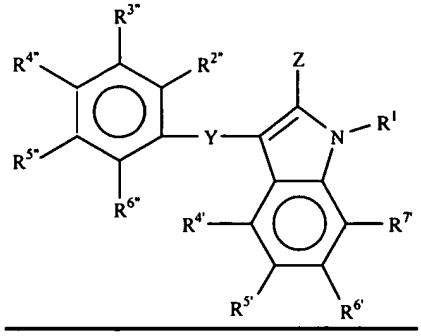
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally in a pharmaceutically acceptable carrier or diluent.

Claim 25 (currently amended): A method for salvage therapy in the treatment or prophylaxis of an HIV-infection in a host, comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-$S(O)_n$-R^3; -$CR^2R^2NH_2$; -$CR^2R^2NHR^2$; -$CR^2R^2NR^2R^3$; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

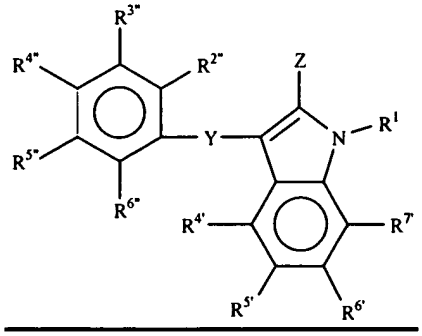
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

optionally in a pharmaceutically acceptable carrier or diluent.

Claim 26 (currently amended): A method for salvage therapy in the treatment or prophylaxis of an HIV-infection in a host, comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-S(O)$_n$-R^3; -C$R^2R^2NH_2$; -CR^2R^2NHR^2; -CR^2R^2NR^2R^3; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

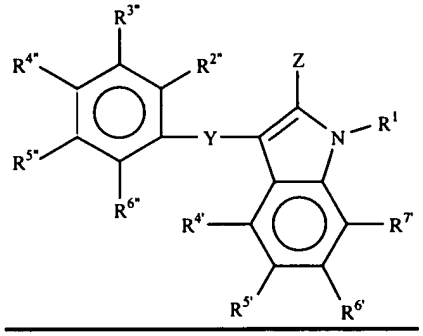
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally in a pharmaceutically acceptable carrier or diluent.

Claim 27 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host, wherein the HIV is resistant to one or more reverse transcriptase inhibitor(s), comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_0$-(amino acid); or -$(CH_2)_0$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2"}$, $R^{3"}$, $R^{4"}$, $R^{5"}$ and $R^{6"}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -NR^2SO_2-C_{1-3}alkyl; -NHCO-C_{1-3}alkyl; -NR^2CO-C_{1-3}alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-$S(O)_0$-R^3; -$CR^2R^2NH_2$; -CR^2R^2NHR^2; -$CR^2R^2NR^2R^3$; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_0$-(amino acid); an amino acid; or -$(CH_2)_0$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_0$-(amino acid); an amino acid; -$(CH_2)_0$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

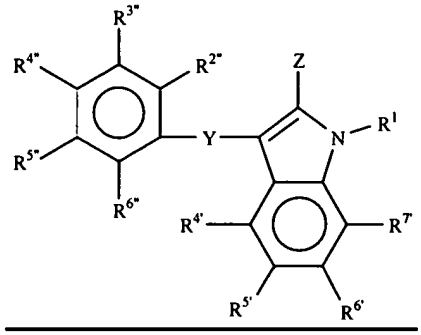
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

optionally in a pharmaceutically acceptable carrier or diluent.

Claim 28 (currently amended): A method for the treatment or prophylaxis of an HIV-infection in a host, wherein the HIV has a mutation at lysine 103 → asparagine and/or tyrosine 181 → cysteine in HIV reverse transcriptase, comprising administering to said host an effective anti-HIV treatment amount of a compound of ~~claim 1,~~ formula (I):



or ~~its~~ a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH-$(CH_2)_p$-(amino acid); or -$(CH_2)_p$-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; -NO_2; -CN; -OH; -OR^2; -SH; -SR^2; -NH_2; -NHR^2; -NR^2R^3; -$NHSO_2$-C_{1-3}alkyl; -N$R^2$$SO_2$-$C_{1-3}$alkyl; -NHCO-$C_{1-3}$alkyl; -N$R^2$CO-$C_{1-3}$alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; -CR^2R^2-S(O)$_n$-R^3; -C$R^2R^2NH_2$; -CR^2R^2NHR^2; -CR^2R^2NR^2R^3; -CR^2R^2-C(=O)R^2; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; -C(=O)NH_2; -C(=W)NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)-NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; or -$(CH_2)_p$(amino acid);

wherein if $R^{5'}$ is hydrogen, F, Cl, Br, -NO_2, -CN, -OR^2, -NR^2R^2, -$NHSO_2$-C_{1-3}alkyl; or -NHCO-C_{1-3}alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, -C(=O)NH_2; -C(=W)-NH_2; -C(=O)NHR^2; -C(=W)NHR^2; -C(=O)NR^2R^3; -C(=W)NR^2R^3; -C(=W)NH$(CH_2)_p$-(amino acid); an amino acid; -$(CH_2)_p$-(amino acid); -C(=O)R^3; -C(=O)H; -C(=W)H; -C(=O)R^2; -C(=W)R^2; -C(=O)OR^3; -C(=O)OH; -C(=W)OH; -C(=O)OR^2; -C(=W)-OR^2; -C(=O)-SH; -C(=W)SH; -C(=O)SR^2; -C(=W)SR^2; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl

bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; -CN; or halo;

Y is O; S; or $S(O)_n$;

each W is independently O; S; $-NH_2$; $-NHR^2$; $-NR^2R^2$; -N-CN; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; -N-OH; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3; CF_3; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3; CF_3; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylhereterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; $-OR^2$; -SH; $-SR^2$; oxime; hydrazine; -C(=O)H; -C(=W)H; $-C(=O)R^2$; $-C(=W)R^2$; -C(=O)OH; -C(=W)OH; $-C(=O)OR^2$; $-C(=W)OR^2$; -C(=O)SH; -C(=W)SH; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}$alkyl; $-NR^2SO_2-C_{1-3}$alkyl; $-NHCO-C_{1-3}$alkyl; $-NR^2CO-C_{1-3}$alkyl; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3}thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally in a pharmaceutically acceptable carrier or diluent.

Claim 29 (original): The method of any one of claims 19-28 wherein the host is a human.